

## Publications for Helen Johnston

### 2018

Urquhart, R., Soria, R., Johnston, H., Pakull, M., Motch, C., Schwöpe, A., Miller-Jones, J., Anderson, G. (2018). Multiband counterparts of two eclipsing ultraluminous X-ray sources in M51. *Monthly Notices of the Royal Astronomical Society*, 475(3), 3561-3576. <a href="http://dx.doi.org/10.1093/mnras/sty014">[More Information]</a>

### 2017

Curran, S., Hunstead, R., Johnston, H., Whiting, M., Sadler, E., Allison, J., Bignell, C. (2017). Further observational evidence for a critical ionizing luminosity in active galaxies. *Monthly Notices of the Royal Astronomical Society*, 470(4), 4600-4607. <a href="http://dx.doi.org/10.1093/mnras/stx1572">[More Information]</a>

Ching, J., Croom, S., Sadler, E., Robotham, A., Brough, S., Baldry, I., Bland-Hawthorn, J., Colless, M., Driver, S., Holwerda, B., Johnston, H., Pracy, M., et al (2017). Galaxy And Mass Assembly (GAMA): the environments of high- and low-excitation radio galaxies. *Monthly Notices of the Royal Astronomical Society*, 469(4), 4584-4599. <a href="http://dx.doi.org/10.1093/mnras/stx1173">[More Information]</a>

Titov, O., Pursimo, T., Johnston, H., Stanford, L., Hunstead, R., Jauncey, D., Zenere, K. (2017). Optical Spectra of Candidate International Celestial Reference Frame (ICRF) Flat-spectrum Radio Sources. III. *Astronomical Journal*, 153(4), 1-8. <a href="http://dx.doi.org/10.3847/1538-3881/aa61fd">[More Information]</a>

Ching, J., Sadler, E., Croom, S., Johnston, H., Pracy, M., Couch, W., Hopkins, A., Jurek, R., Pimblet, K. (2017). The Large Area Radio Galaxy Evolution Spectroscopic Survey (LARGESS): Survey design, data catalogue and GAMA/WiggleZ spectroscopy. *Monthly Notices of the Royal Astronomical Society*, 464(2), 1306-1332. <a href="http://dx.doi.org/10.1093/mnras/stw2396">[More Information]</a>

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Collet, C., Nesvadba, N., de Breuck, C., Lehnert, M., Best, P., Bryant, J., Hunstead, R., Dicken, D., Johnston, H. (2016). Kinematic signatures of AGN feedback in moderately powerful radio galaxies at  $z \approx 2$  observed with SINFONI. *Astronomy and Astrophysics*, 586, 1-28. <a href="http://dx.doi.org/10.1051/0004-6361/201526872">[More Information]</a>

Johnston, H., Soria, R., Gibson, J. (2016). The nature of the companion star in Circinus X-1. *Monthly Notices of the Royal Astronomical Society*, 456(1), 347-355. <a href="http://dx.doi.org/10.1093/mnras/stv2669">[More Information]</a>

### 2015

Collet, C., Nesvadba, N., de Breuck, C., Lehnert, M., Best, P., Bryant, J., Dicken, D., Johnston, H., Hunstead, R., Wylezalek, D. (2015). Defying jet-gas alignment in two radio galaxies at  $z \approx 2$  with extended light profiles: Similarities to brightest cluster galaxies. *Astronomy and Astrophysics*, 579, 1-17. <a href="http://dx.doi.org/10.1051/0004-6361/201424544">[More

Information]</a>

Hill, M., Sharma, M., Johnston, H. (2015). How online learning modules can improve the representational fluency and conceptual understanding of university physics students. *European Journal of Physics*, 36(4), 1-20. <a href="http://dx.doi.org/10.1088/0143-0807/36/4/045019">[More Information]</a>

### 2014

Schaefer, A., Hunstead, R., Johnston, H. (2014). How Accurate are SuperCOSMOS Positions? *Publications of the Astronomical Society of Australia (PASA)*, 31(1), 1-6. <a href="http://dx.doi.org/10.1017/pasa.2014.4">[More Information]</a>

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Hill, M., Sharma, M., Johnston, H. (2013). Developing representational skills through weekly online learning modules for first-year undergraduate physics students. *19th Annual UniServe Science Conference: Australian Conference on Science and Mathematics Education (ACSME 2013)*, Canberra: University of Sydney.

Anderson, C., Johnston, H., Hunstead, R. (2013). Galactic interaction as the trigger for the young radio galaxy MRC B1221-423. *Monthly Notices of the Royal Astronomical Society*, 431(4), 3269-3281. <a href="http://dx.doi.org/10.1093/mnras/stt406">[More Information]</a>

Titov, O., Stanford, L., Johnston, H., Pursimo, T., Hunstead, R., Jauncey, D., Maslennikov, K., Boldycheva, A. (2013). Optical spectra of candidate international celestial reference frame (ICRF) flat-spectrum radio sources. *Astronomical Journal*, 146(1), 1-10. <a href="http://dx.doi.org/10.1088/0004-6256/146/1/10">[More Information]</a>

### 2012

Saripalli, L., Subrahmanyan, R., Thorat, K., Ekers, R., Hunstead, R., Johnston, H., Sadler, E. (2012). ATLAS extended source sample: The evolution in radio source morphology with flux density. *The Astrophysical Journal Supplement Series*, 199(2), 1-13. <a href="http://dx.doi.org/10.1088/0067-0049/199/2/27">[More Information]</a>

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Mahony, E., Sadler, E., Croom, S., Ekers, R., Bannister, K., Chhetri, R., Hancock, P., Johnston, H., Massardi, M., Murphy, T. (2011). Optical properties of high-frequency radio sources from the Australia Telescope 20 GHz (AT20G) Survey. *Monthly Notices of the Royal Astronomical Society*, 417(4), 2651-2675. <a href="http://dx.doi.org/10.1111/j.1365-2966.2011.19427.x">[More Information]</a>

Titov, O., Jauncey, D., Johnston, H., Hunstead, R., Christensen, L. (2011). Optical Spectra of Candidate Southern Hemisphere International Celestial Reference Frame (ICRF) Radio Sources. *Astrophysical Journal Letters*, 142(5), 1-10. <a href="http://dx.doi.org/10.1088/0004-6256/142/5/165">[More Information]</a>

Sarty, G., Pilecki, B., Reichart, D., Ivarsen, K., Haislip, J., Nysewander, M., LaCluyze, A., Johnston, H., Shobbrook, R.,

Kiss, L., Wu, K. (2011). Photometric observations of three high mass X-ray binaries and a search for variations induced by orbital motion. *Research in Astronomy and Astrophysics*, 11(8), 947-964. <a href="http://dx.doi.org/10.1088/1674-4527/11/8/007">[More Information]</a>

Sarty, G., Szalai, T., Kiss, L., Matthews, J., Wu, K., Kuschnig, R., Guenther, D., Moffat, A., Rucinski, S., Sasselov, D., Johnston, H., et al (2011). The (gamma)-ray binary LS 5039: mass and orbit constraints from MOST observations. *Monthly Notices of the Royal Astronomical Society*, 411(2), 1293-1300. <a href="http://dx.doi.org/10.1111/j.1365-2966.2010.17757.x">[More Information]</a>

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Johnston, H., Broderick, J., Cotter, G., Morganti, R., Hunstead, R. (2010). The extraordinary radio galaxy MRC B1221-423: Probing deeper at radio and optical wavelengths. *Monthly Notices of the Royal Astronomical Society*, 407(2), 721-733. <a href="http://dx.doi.org/10.1111/j.1365-2966.2010.16950.x">[More Information]</a>

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Bryant, J., Broderick, J., Johnston, H., Hunstead, R., Gaensler, B., De Breuck, C. (2009). A new search for distant radio galaxies in the Southern hemisphere - II. 2.2m imaging\*. *Monthly Notices of the Royal Astronomical Society*, 394(4), 2197-2222. <a href="http://dx.doi.org/10.1111/j.1365-2966.2009.14500.x">[More Information]</a>

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Sarty, G., Kiss, L., Huziak, R., Catalan, L., Luciuk, D., Crawford, T., Lane, D., Pickard, R., Grzybowski, T., Closas, P., Johnston, H., et al (2009). Periodicities in the high-mass X-ray binary system RX J0146.9+6121/LSI+61 $\hat{A}$ <sup>o</sup>235. *Monthly Notices of the Royal Astronomical Society*, 392(3), 1242-1252. <a href="http://dx.doi.org/10.1111/j.1365-2966.2008.14138.x">[More Information]</a>

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Johnston, H., Sadler, E., Cannon, R., Croom, S., Ross, N., Schneider, D. (2008). Radio galaxies in the 2SLAQ Luminous Red Galaxy survey - II. The stellar populations of radio-loud and radio-quiet LRGs. *Monthly Notices of the Royal Astronomical Society*, 384(2), 692-700. <a href="http://dx.doi.org/10.1111/j.1365-2966.2007.12741.x">[More Information]</a>

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Sadler, E., Cannon, R., Mauch, T., Hancock, P., Wake, D.,

Ross, N., Croom, S., Drinkwater, M., Edge, A., Eisenstein, D., Hopkins, A., Johnston, H., et al (2007). Radio galaxies in the 2SLAQ Luminous Red Galaxy Survey - I. The evolution of low-power radio galaxies to  $z$  similar to 0.7. *Monthly Notices of the Royal Astronomical Society*, 381(1), 211-227. <a href="http://dx.doi.org/10.1111/j.1365-2966.2007.12231.x">[More Information]</a>

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De Breuck, C., Feain, I., Johnston, H., Hunstead, R., Bryant, J., Rocca-Volmerange, B., Sadler, E. (2006). A search for distant radio galaxies from SUMSS and NVSS - II. Optical spectroscopy. *Monthly Notices of the Royal Astronomical Society*, 366(1), 58-72. <a href="http://dx.doi.org/10.1111/j.1365-2966.2005.09799.x">[More Information]</a>

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Johnston, H., Hunstead, R., Cotter, G., Sadler, E. (2005). MRC B1221-423: a compact steep-spectrum radio source in a merging galaxy. *Monthly Notices of the Royal Astronomical Society*, 356(2), 515-523. <a href="http://dx.doi.org/10.1111/j.1365-2966.2004.08468.x">[More Information]</a>

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Fender, R., Wu, K., Johnston, H., Tzioumis, T., Jonker, P., Spencer, R., van der Klis, M. (2004). An Ultra-Relativistic Outflow From A Neutron Star Accreting Gas From A Companion. *Nature*, 427(6971), 222-224. <a href="http://dx.doi.org/10.1038/nature02137">[More Information]</a>

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Jauncey, D., Johnston, H., Bignall, H., Lovell, J., Kedziora-Chudczer, L., Tzioumis, A., Macquart, J. (2003). Interstellar scintillation and annual cycles in the BL Lac source PKS 1519-273. *Astrophysics and Space Science*, 288(1-2), 63-68. <a href="http://dx.doi.org/10.1023/B:ASTR.0000004994.54721.63">[More Information]</a>

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Johnston, H., Wu, K., Fender, R., Cullen, J. (2001). Secular and orbital variability of Cir X-1 observed in optical spectra. *Monthly Notices of the Royal Astronomical Society*, Vol 328(4), 1193-1199. <a href="http://dx.doi.org/10.1046/j.1365-8711.2001.04963.x">[More Information]</a>